

### **Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of the claims in the application:

### **Listing of Claims**

What is claimed is:

1. (Currently amended) An apparatus that amplifies vibrations by increasing the extension and contraction along the length of the apparatus that are produced by an actuator, comprising;
  - a. a horn that forms two or more parallel acoustic paths and possesses two surfaces perpendicular to the extension, one connected directly to ~~an~~ the actuator for mechanical input power from the actuator and the other ~~free~~ connected to a solid or liquid for mechanical power output,
  - b. ~~a~~ The horn with at least one change in direction, which is called a fold, that amplifies the vibration strain from ~~an~~ the actuator.
2. (Currently amended) The horn of claim 1, ~~where the folded horn~~ is configured axis-symmetric or planar with respect to axis of extension.
3. (Original) The horn of claim 1, further comprising of a stack of piezoelectric or electrostrictive elements that are configured concentric and external to the horn.
4. (Currently amended) The horn of claim 1, comprised of an ~~electroactive~~ piezoelectric or electrostrictive stack that is encircled by the horn as a compact modality of the actuator.
5. (Original) The horn of claim 1, comprised of a hollow core as a passage for transfer of materials from one side to the other.
6. (Currently amended) The ~~folded~~ horn of claim 2, further comprising an adjustable fold thickness design for adjusting the bending contribution to the overall ~~extension~~ displacement of the horn tip.
7. (Currently amended) The ~~folded~~ horn of claim 2, further comprising of a reflector connected to the base of the folds for enhanced vibration amplification and control of the phase of the ~~strain~~ extension and contraction.